

What is claimed is:

1. A fluid-flow machine, including:

at least one rotor row and a free number of stator rows flown by a
5 fluid, with at least one blade thereof positioned on throat-confining
surfaces provided with both a device for fluid removal from a flow path and
a device for fluid supply into the flow path, and

at least one line associated with the device for fluid removal for
returning the removed fluid to an upstream position in the flow path and at
10 least one further line associated with the device for fluid supply for
supplying the fluid from a further downstream position in the flow path.

2. A fluid-flow machine in accordance with Claim 1, wherein the
device for fluid removal is provided on at least one blade of at least one of
a stator and a rotor row of blades and connects via at least one line to a
15 device for fluid supply on at least one blade of at least one of a further
rotor and stator row of blades.

3. A fluid-flow machine in accordance with Claim 1, wherein the
device for fluid supply is provided on at least one blade of at least one of a
stator and a rotor row of blades and is fed via at least one line from a
20 device for fluid removal on at least one blade of at least one of a further
rotor and stator row of blades.

4. A fluid-flow machine in accordance with Claim 1, and comprising a
restrictor positioned in at least one of the lines.

5. A fluid-flow machine in accordance with Claim 1, wherein at least
25 one of the lines provides for free flow of the fluid.

6. A fluid-flow machine in accordance with Claim 1, wherein the blade
is provided with a device for the variable control of the fluid flow area for at
least one of the fluid removal and supply, respectively.



7. A fluid-flow machine in accordance with Claim 1, wherein the line for returning the removed fluid is provided with a discharge chamber positioned at an inlet to the line.
8. A fluid-flow machine in accordance with Claim 1, wherein the line
5 for supplying the fluid is provided with a supply chamber at an outlet to the line.
9. A fluid-flow machine in accordance with Claim 1, wherein, the blade is a variable stator blade, with a fluid supply channel and a fluid discharge channel being arranged within a spindle of the blade, the two channels
10 leading into and out of the flow path, respectively, to at least one of a machine casing and a rotor hub, to provide for bi-functionality for the blade.
10. A fluid-flow machine in accordance with Claim 2, and comprising a restrictor positioned in at least one of the lines.
11. A fluid-flow machine in accordance with Claim 2, wherein at least
15 one of the lines provides for free flow of the fluid.
12. A fluid-flow machine in accordance with Claim 2, wherein the blade is provided with a device for the variable control of the fluid flow area for at least one of the fluid removal and supply, respectively.
13. A fluid-flow machine in accordance with Claim 2, wherein the line
20 for returning the removed fluid is provided with a discharge chamber positioned at an inlet to the line.
14. A fluid-flow machine in accordance with Claim 13, wherein the line for supplying the fluid is provided with a supply chamber at an outlet to the
25 line.
15. A fluid-flow machine in accordance with Claim 3, and comprising a restrictor positioned in at least one of the lines.

16. A fluid-flow machine in accordance with Claim 3, wherein at least one of the lines provides for free flow of the fluid.

17. A fluid-flow machine in accordance with Claim 3, wherein the blade is provided with a device for the variable control of the fluid flow area for at least one of the fluid removal and supply, respectively.

18. A fluid-flow machine in accordance with Claim 3, wherein the line for returning the removed fluid is provided with a discharge chamber positioned at an inlet to the line.

19. A fluid-flow machine in accordance with Claim 18, wherein the line for supplying the fluid is provided with a supply chamber at an outlet to the line.

20. A fluid-flow machine in accordance with Claim 2, wherein the device for fluid supply is also provided on the blade with the device for fluid removal and is fed via at least one line from a device for fluid removal on at least one blade of at least one of a second further rotor and stator row of blades.

21. A fluid-flow machine in accordance with Claim 20, and comprising a restrictor positioned in at least one of the lines.

22. A fluid-flow machine in accordance with Claim 20, wherein at least one of the lines provides for free flow of the fluid.

23. A fluid-flow machine in accordance with Claim 20, wherein the blade is provided with a device for the variable control of the fluid flow area for at least one of the fluid removal and supply, respectively.

24. A fluid-flow machine in accordance with Claim 20, wherein the line for returning the removed fluid is provided with a discharge chamber positioned at an inlet to the line.

25. A fluid-flow machine in accordance with Claim 24, wherein the line for supplying the fluid is provided with a supply chamber at an outlet to the line.